

## Patent Abstracts of Japan

PUBLICATION NUMBER : 03109139  
PUBLICATION DATE : 09-05-91

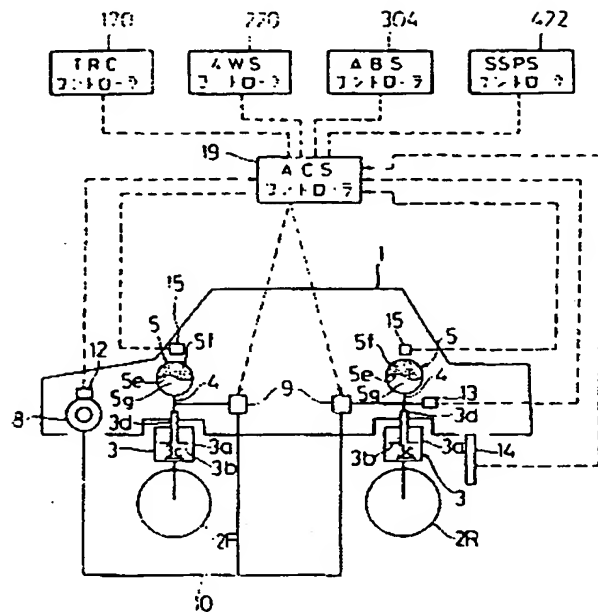
APPLICATION DATE : 20-09-89  
APPLICATION NUMBER : 01246043

APPLICANT : MAZDA MOTOR CORP;

INVENTOR : KAGEYAMA FUMIO;

INT.CL. : B60K 41/28 B60G 17/015 B60K 41/00  
B60T 8/58 B62D 6/00 F02D 29/02  
F02D 45/00

TITLE : COMPREHENSIVE CONTROLLER FOR  
VEHICLE



**ABSTRACT :** PURPOSE: To improve the stability of a vehicle according to the traveling state of the vehicle and a road surface state by detecting the operation frequency of an active suspension device, and correcting the control for other wheel controller in the direction of attaching importance to the traveling stability, when the operation frequency is large.

**CONSTITUTION:** A fluid cylinder 3 is arranged between a car body 1 and each wheel 2 (2F, 2R), and a gas spring 5 is communicated with the hydraulic chamber 3c of each cylinder 3, and the fluid supplied from a hydraulic pump 8 is supplied and discharged through a proportional flow rate control valve 9. The suspension characteristic is controlled in a variable manner by controlling the proportional flow rate control valve 9 by an ACS controller 19. In this active suspension device, the operation frequency of the device is detected, and when the operation frequency is large, correction control in the direction of attaching importance to the traveling stability is carried out for traction controller 170, four-wheel steering device 220, antiskid brake device 304, and a power steering device 422.

COPYRIGHT: (C)1991,JPO&Japio